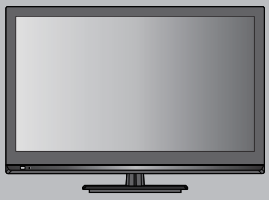
Panasonic

Model No.
TX-L19X5B
TX-L24X5B

Operating Instructions
LCD Television



VIERA

Thank you for purchasing this Panasonic product.
Please read these instructions carefully before operating this product and retain them for future reference.
The images shown in this manual are for illustrative purposes only.
Please refer to Pan European Guarantee Card if you need to contact your local Panasonic dealer for assistance.

English

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SAFETY PRECAUTIONS

Warning

Mains plug and lead

To help avoid risk of electrical shock, fire, damage or injury, please follow the warnings below:

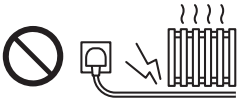
- This TV is designed to operate on AC 220-240 V, 50 Hz.
- Insert the mains plug fully into the socket outlet.
- Ensure that the mains plug is easily accessible.
- Remove the mains plug when cleaning the TV.
- Do not touch the mains plug with a wet hand.

If you detect anything unusual, immediately switch off the mains supply switch and remove the mains plug.

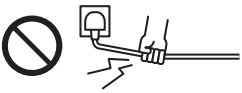
AC 220-240 V
50 Hz

- Do not damage the mains lead.
  - Do not place a heavy object on the lead.

  - Do not place the lead near a high temperature object.



  - Do not pull on the lead. Hold onto the mains plug body when disconnecting the plug.



  - Do not move the TV with the lead plugged into a socket outlet.
  - Do not twist the lead, bend it excessively or stretch it.
  - Do not use a damaged mains plug or socket outlet.
  - Ensure the TV does not crush the mains lead.
- Do not use any mains lead other than that provided with this TV.
- Do not place foreign objects inside the TV
  - Do not allow any objects to drop into the TV through the air vents as fire or electrical shock may result.

IMPORTANT: THE MOULDED MAINS PLUG

FOR YOUR SAFETY, PLEASE READ THE FOLLOWING TEXT CAREFULLY.

This TV is supplied with a moulded three pin mains plug for your safety and convenience.
A 5 amp fuse is fitted in this mains plug. Shall the fuse need to be replaced, please ensure that the replacement fuse has a rating of 5 amps and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark ⓐ or the BSI mark ⓚ on the body of the fuse.
If the mains plug contains a removable fuse cover, you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the mains plug must not be used until a replacement cover is obtained.
A replacement fuse cover may be purchased from your local dealer.

Do not cut off the mains plug.
Do not use any other type of mains lead except the one supplied with this TV.
The supplied mains lead and moulded plug are designed to be used with this TV to avoid interference and for your safety.
If the socket outlet in your home is not suitable, get it changed by a qualified electrician.
If the plug or mains lead becomes damaged, purchase a replacement from an authorized dealer.

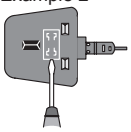
Example 1

How to replace the fuse

For plug type shown in example 1:
Lift out the removable fuse compartment with a screwdriver and replace the fuse, then refit securely into the mains plug (see example 1).

For plug type shown in example 2:
Lift open the fuse compartment, in the mains plug, with a screwdriver, and replace the fuse, then press the fuse cover down securely (see example 2).

Example 2



Warning

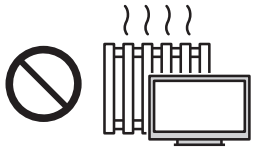
Take care

To help avoid risk of electrical shock, fire, damage or injury, please follow the warnings below:

- Do not remove covers and never modify the TV yourself as live parts are accessible when they are removed. There are no user serviceable parts inside.

- Do not expose the TV to rain or excessive moisture. This TV must not be exposed to dripping or splashing water and objects filled with liquid, such as vases, must not be placed on top of or above the TV.

- Do not expose the TV to direct sunlight and other sources of heat. To prevent fire never place any type of candle or naked flame on top or near the TV.



- Do not place the TV on sloped or unstable surfaces, and ensure that the TV does not hang over the edge of the base.

- Do not insert foreign objects into the TV through the air vents.
- Do not use an unapproved pedestal / mounting equipment. Be sure to ask your local Panasonic dealer to perform the setup or installation of approved wall-hanging brackets.
- Do not apply strong force or impact to the display panel.
- This TV is designed for Table-top use.

To prevent the spread of fire, keep candles or other open flames away from this product at all times

Small object

This product contains possibly dangerous parts that can be breathed in or swallowed by young children accidentally.

- Keep the dangerous parts out of reach of young children.

Radio waves

- Do not use the TV in any medical institutions or locations with medical equipment. Radio waves from the TV may interfere with the medical equipment and cause accidents due to the malfunction.
- Do not use the TV near any automatic control equipment such as automatic doors or fire alarms. Radio waves from the TV may interfere with the automatic control equipment and cause accidents due to the malfunction.

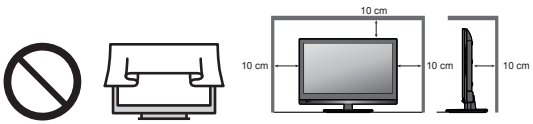
Caution

Ventilation

Allow sufficient space around the TV in order to help prevent excessive heat, which could lead to early failure of some electronic components.

- Ventilation should not be impeded by covering the ventilation openings with items such as newspapers, tablecloths and curtains.

Minimum distance



- Whether you are using the pedestal or not, always ensure the vents in the bottom of the TV are not blocked and there is sufficient space to enable adequate ventilation.

Moving the TV

Before moving the TV, disconnect all cables.

When not in use for a long time

This TV will still consume some power even in the Off mode, as long as the mains plug is still connected to a live socket outlet.

- Remove the mains plug from the wall socket when the TV is not in use for a prolonged period of time.

Excessive volume

Do not expose your ears to excessive volume from the headphones.
Irreversible damage can be caused.

Notice for DVB functions

This TV is designed to meet the standards (as of August, 2010) of DVB-T (MPEG2 and MPEG4-AVC(H.264)) digital terrestrial services and DVB-C (MPEG2 and MPEG4-AVC(H.264)) digital cable services.
Consult your local dealer for availability of DVB-T services in your area.
Consult your cable service provider for availability of DVB-C services with this TV.

- This TV may not work correctly with the signal which does not meet the standards of DVB-T or DVB-C.
- Not all the features are available depending on the country, area, broadcaster and service provider.
- Not all CI modules work properly with this TV. Consult your service provider about the available CI module.
- This TV may not work correctly with CI module that is not approved by the service provider.
- Additional fees may be charged depending on the service provider.
- The compatibility with future DVB services is not guaranteed.
- Check the latest information on the available services at the following website. (English only)
  http://panasonic.jp/support/global/cs/tv/

Panasonic does not guarantee operation and performance of peripheral devices made by other manufacturers; and we disclaim any liability or damage arising from operation and/or performance from usage of such other maker's peripheral devices.

Maintenance

First, remove the mains plug from the socket outlet.

Display panel, Cabinet, Pedestal

Regular care :

Gently wipe the surface of the display panel, cabinet, or pedestal by using a soft cloth to clean the dirt or fingerprints.

For stubborn dirt :

Dampen a soft cloth with clean water or diluted neutral detergent (1 part detergent to 100 parts water). Then wring the cloth and wipe the surface. Finally, wipe away all the moisture.

Caution

- Do not use a hard cloth or rub the surface too hard. This may cause scratches on the surface.
- Take care not to subject the TV's surfaces to water or detergent. Liquid inside the TV could lead to product failure.
- Take care not to subject the surfaces to insect repellent, solvent, thinner or other volatile substances. This may degrade surface quality or cause peeling of the paint.
- The surface of the display panel is specially treated and may be easily damaged. Take care not to tap or scratch the surface with your fingernail or other hard objects.
- Do not allow the cabinet and pedestal to make contact with a rubber or PVC substance for a long time. This may degrade surface quality.

Mains plug

Wipe the mains plug with a dry cloth at regular intervals. Moisture and dust may lead to fire or electrical shock.

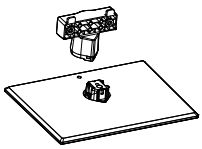
Standard Accessories

☑ **Check you have all the items shown.**

☐ **Remote Control (TZZ00000007A)**

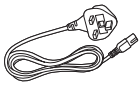
☐ **Batteries (R03 · AAA) x 2**

☐ **Neck and Base**



☐ **Screws x 3**
(Assembly screws for neck and base)

☐ **Power Cord**



Attaching the Pedestal

Warning

Do not disassemble or modify the pedestal.

- Otherwise the TV may fall over and become damaged, and personal injury may result.

Caution

Do not use any pedestal other than that provided with this TV.

- Otherwise the TV may fall over and become damaged, and personal injury may result.

Do not use the pedestal if it becomes warped or physically damaged.

- If you use the pedestal while it is physically damaged, personal injury may result. Contact your nearest Panasonic dealer immediately.

During assembly, use only screws supplied and make sure that all screws are securely tightened.

- If sufficient care is not taken to ensure screws are properly tightened during assembly, the pedestal will not be strong enough to support the TV. It might fall over and become damaged and personal injury may result.

Ensure that the TV does not fall over.

- If the TV is knocked or children climb onto the pedestal with the TV installed, the TV may fall over and personal injury may result.

Two or more people are required to install and remove the TV.

- If two or more people are not present, the TV may be dropped, and personal injury may result.

Caution

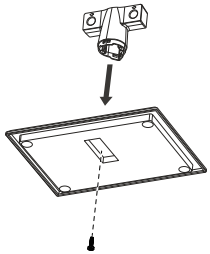
Small object

This product contains possibly dangerous parts that can be breathed in or swallowed by young children accidentally

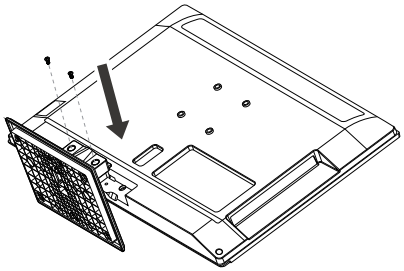
- Keep the dangerous parts out of reach of young children.

Installing Pedestal

1. Place the LCD TV screen facing down on a flat surface place where maintained with soft materials (such as a blanket) for protecting the display screen.
2. Use the assembly screw to fasten the neck to the base securely.

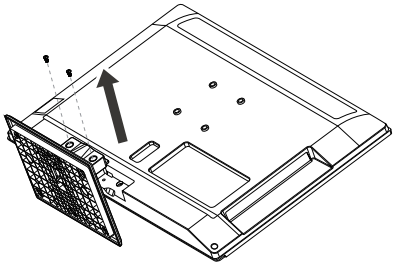


3. Use only the supplied assembly screws to fasten the pedestal securely to the TV.



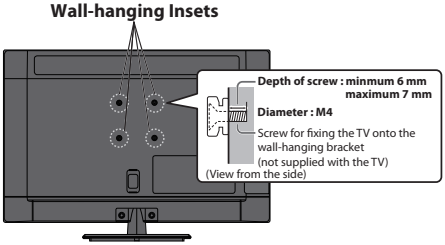
Uninstalling Pedestal

1. Place the LCD TV screen facing down on a flat surface place where maintained with soft materials (such as a blanket) for protecting the display screen.
2. Remove screws in two holes with screw driver.



Wall-hanging (Not supplied)

Wall-hanging Insets


Depth of screw : minmum 6 mm
maximum 7 mm
Diameter : M4
Screw for fixing the TV onto the wall-hanging bracket
(not supplied with the TV)
(View from the side)

TV Size	VESA standard interface
24 inch	75 x 75 mm
19 inch	75 x 75 mm

Wall-hanging bracket (Optional)

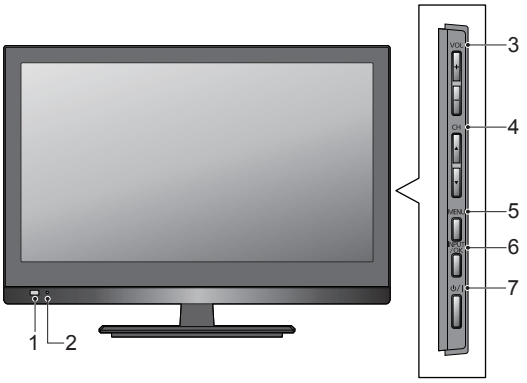
Please contact your nearest Panasonic dealer to purchase the recommended optional accessories.
For additional details, please refer to the manual of the optional accessories.

Warning

- Using other wall-hanging brackets, or installing a wall hanging bracket by yourself have the risk of personal injury and product damage. In order to maintain the unit's performance and safety, be absolutely sure to ask your dealer or a licenced contractor to secure the wall-hanging brackets. Any damage caused by installing without a qualified installer will void your warranty.
- Do not mount the unit directly below ceiling lights (such as spotlights, floodlights or halogen lights) which typically give off high heat. Doing so may warp or damage plastic cabinet parts.
- Take care when fixing wall brackets to the wall. Always ensure that there are no electrical cables or pipes in the wall before hanging bracket.
- To prevent fall and injury, remove the TV from its fixed wall position when it is no longer in use.

PART NAMES AND FUNCTIONS

TV Controls/ Indicators



1 Remote Control Signal Receiver
- Do not place any objects between the TV remote control signal receiver and remote control.

2 Power Indicator
Red: Standby
Green: On
Green blink: Receiving a command from the remote control

3 VOL +/-
- Used to change volume.
- Used to adjust the value of the selected item on On-Screen Menu.

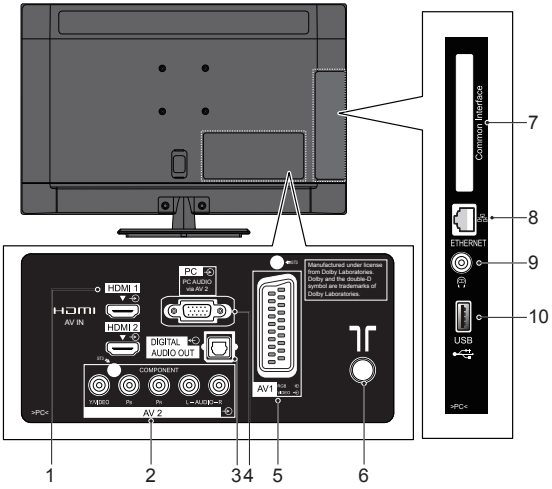
4 CH ▲/▼
- Used to change channels.
- Used to select item on On-Screen Menu.

5 MENU
- Open or close the On-Screen Menu.

6 INPUT/OK
- Use to select an input source.
- Confirm and enter a selection.

7 ⏻/I (POWER)
- Use to turn the TV On or Off.

TV (Side / Back)



1 HDMI 1/HDMI 2
- Connect all kinds of HDMI output equipment.
- When connecting a DVI device using an HDMI-DVI adapter, connect the device to the HDMI1 jack.

2 AV 2
- Connect video and audio output from video equipment.

3 DIGITAL AUDIO OUT
- Connect an audio amplifier to this jack.

4 PC
- Connect computer outputs to this terminal.
- Connect an audio cable to L/R jacks of AV2 and audio out jack on the computer.

5 AV 1
- Full SCART, which transmits RGB, S-Video and CVBS in, and audio/video out (Analogue only).

6 Aerial Jack
- Connects to TV RF signals (aerial/CATV).

7 Common Interface
- The Common Interface Module menu provides access to software contained on Common Interface (CI) Modules.

8 ETHERNET
- This terminal is for access to the MHEG interactive services and features through an internet.
- Please contact broadcasters for availability of services.

9 Headphone
- Connect a headphone (stereo) to this jack and the TV speaker out will be muted.

10 USB
- Connect USB memory stick to this terminal to play Multimedia.

Connections

Computer Connection

Cable used for connection (This cable is not supplied with this LCD TV.)

- PC/VGA Cable (D-SUB 15pin)
- HDMI Cable
- Audio Cable [L/R]

Note:
When connecting the cable, AC Power Cords of both LCD TV and external equipment should be disconnected from AC outlet. Turn LCD TV and peripheral equipment on before your computer is switched on.

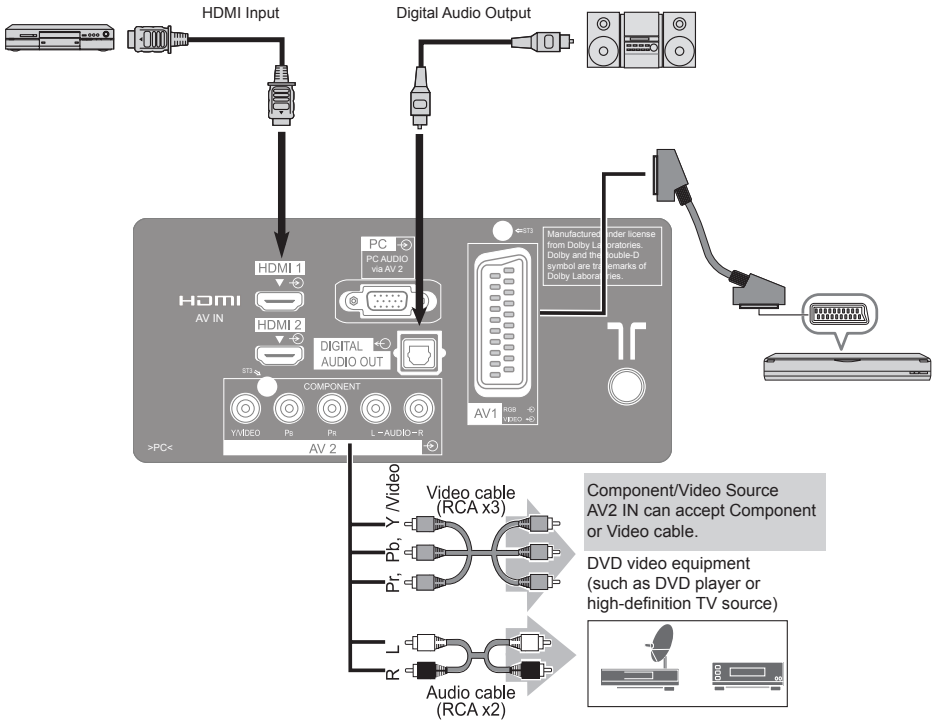
Note:
You can connect the DVI source to HDMI1 input terminal by using the DVI to HDMI converter then connect audio input to PC audio input terminal (L/R jacks of AV2 INPUT).

Video Equipment Connection

Cables used for connection (These cables are not supplied with this LCD TV.)

- Component/Video, Audio Cable
- HDMI Cable: HDMI Input

Note:
When connecting the cable, AC Power Cords of both LCD TV and external equipment should be disconnected from AC outlet.



Note:

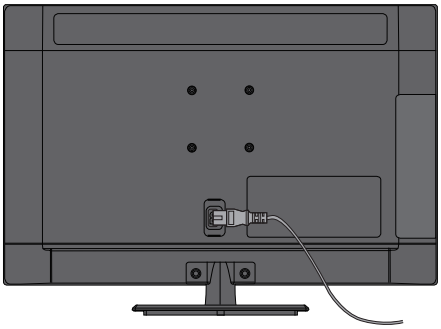
- DIGITAL AUDIO OUT: Connect an audio amplifier to this jack.

AC Power Cord Connection

This LCD TV uses nominal input voltages of 220-240V AC. It is designed to work with single-phase power systems. To reduce risk of electrical shock, do not plug into any other type of power system. Consult your authorised dealer or service station if you are not sure the type of power being supplied. Connect the LCD TV with all peripheral equipment before turning the LCD TV on.

Caution

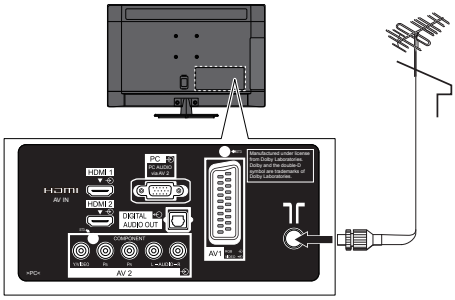
- For safety, unplug AC power cord when the LCD TV is not in use.



Aerial or Cable Connection

Cable used for connection (This Outdoor Aerial cable is not supplied with this LCD TV.)

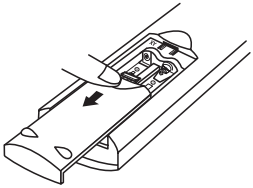
- Aerial Cable



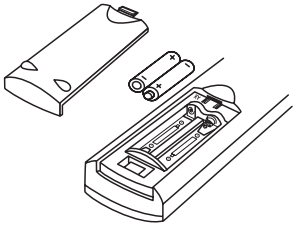
Note:
For all aerial circuit problems, please consult your local dealer.

Remote Control Batteries Installation

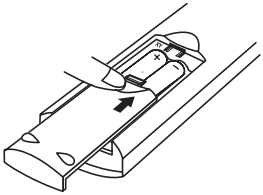
1. Remove the battery compartment cover.



2. Insert two size R03・AAA batteries (1.5V) according to "+" and "-" polarity markings inside the battery compartment.



3. Close the battery compartment cover.

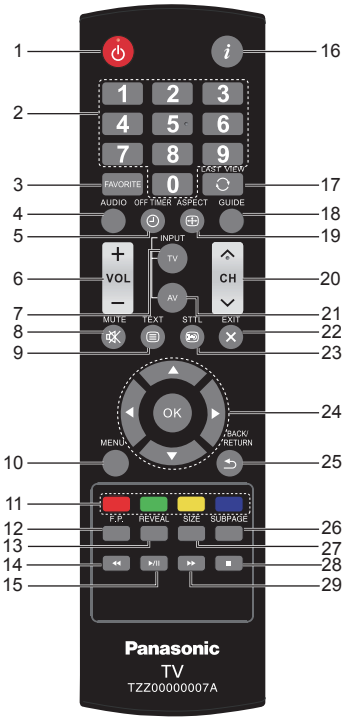


Caution

To insure safe operation, please observe the following precautions:

- Replace two batteries at the same time.
- Do not use a new battery with a used battery.
- Avoid contacting with water or liquid.
- Do not expose the Remote Control or Batteries to moisture, or heat such as sunshine, fire or the like.
- Do not drop the Remote Control.
- If a battery has leaked on the Remote Control, carefully wipe case clean and install new batteries.
- Risk of explosion if battery is replaced by an incorrect type.
- Dispose of used batteries according to the instructions.
- Remote control contains R03・AAA battery and must be kept out of reach of small children to avoid accidental ingestion.
- Replace only with same or equivalent type. Do not mix different battery types (such as alkaline and manganese batteries).
- Do not use rechargeable (Ni-Cd) batteries.

Remote Control



1 Standby On / Off switch
- Switches TV On or Off standby.

2 Numeric buttons
- Changes channel and teletext pages.

3 FAVORITE
- Open the favourite channel list.

Note:
- Add a channel into the favourite channel list:
  - When you enter a channel, press **FAVORITE** button to open the favourite channel list, then press **OK** to add the selected channel into the favourite channel list.
- View a favourite channel:
  - Press **FAVORITE** button to open the favourite channel list, selects a channel, then press **OK** to enter.
- Remove a favourite channel from the favourite channel list:
  - Press **FAVORITE** button to open the favourite channel list, selects the channel, then press **OK** to enter.
  - Press **FAVORITE** button again to open the favourite channel list, selects the current channel, then press **OK** to remove the channel from the favourite channel list.

4 AUDIO
- Selects multi audio in DVB mode or MPX selection in analogue mode.

5 OFF TIMER
- Sets the time settings of off timer.

6 VOL +/-
- Press to adjust the volume.

7 INPUT (TV)
- Switches to TV input source.

8 MUTE
- Press to mute or restore the sound.

9 TEXT
- Switches to teletext mode.
- Actives FreeView contents when MHEG source inputs.

10 MENU
- Open or close the On-Screen Menu.

11 R/G/Y/B (COLOUR BUTTON)
- Used for the selection, navigation and operation of various functions.
- Red button: Actives FreeView contents when MHEG source inputs.

12 F.P. (Favourite Page)
- Opens the favourite page list in teletext mode.

Note:
- Add a teletext page into the favourite page list:
  - When you enter a teletext page, press **F.P.** button to open the favourite page list, then press **OK** to add the selected teletext page into the favourite page list.
- View a favourite page:
  - Press **F.P.** button to open the favourite page list, selects a teletext page, then press **OK** to enter the content.
- Remove a favourite page from the favourite page list:
  - Press **F.P.** button to open the favourite page list, selects the teletext page, then press **OK** to enter the content.
  - Press **F.P.** button again to open the favourite page list, selects the current teletext page, then press **OK** to remove the teletext page from the favourite page list.

13 REVEAL
- Reveal hidden information such as answers to a quiz.

14 ◀◀
- Fast reverse for multi-media playback. (See page 20-21)

15 ▶/❚❚
- Play or pause for multi-media playback. (See page 20-21)

16 (Information)
- Displays channel and programme information.

17 LAST VIEW
- Switches to previously viewed channel or input mode.

18 GUIDE
- Displays TV Guide.
- Switches to teletext mode.

19 ASPECT
- Changes aspect ratio.

20 CH ∧ / ∨
- Selects channel in sequence.

21 INPUT (AV)
- Opens input source list and switches to video input source.

22 EXIT
- Returns to the normal viewing screen.

23 STTL
- Displays subtitles.

24 ▲/▼/◀/▶ / OK
- Confirms selections and choices.

25 BACK/RETURN
- Returns to the previous menu/page.

26 SUBPAGE
- To select the subpage when the current page contains subpages.

27 SIZE
- Teletext size function key.

28 ■
- Stop for multi-media playback. (See page 20-21)

29 ▶▶
- Fast forward for multi-media playback. (See page 20-21)

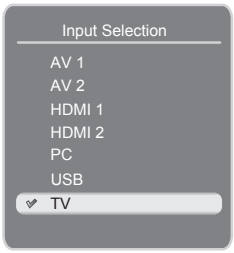
Turning On/Off LCD TV

1. Complete the peripheral connections before turning on LCD TV.
2. Connect LCD TV's AC Power Cord into an AC outlet.
3. Press POWER button on Side Control of LCD TV or use Remote Control to turn it ON.
   The POWER indicator will light up (green).
4. Press POWER button again to enter stand-by status, the POWER indicator will become red.

Note:
If there is no reaction when you press **(POWER)** on the remote control, press ⏻/I **(POWER)** button on Side Control again to active the TV.

Selecting Input Source

Select mode **AV 1**, **AV 2**, **HDMI 1**, **HDMI 2, PC**, **USB**, or **TV** by pressing **INPUT(AV)** button of Remote Control or **INPUT/OK** button of Side Control.



ASPECT

Select screen size among "Auto", "4:3", "Zoom 1", "Zoom 2", "16:9" by pressing **ASPECT** button on Remote Control.

[Auto]
The optimum size and aspect can be chosen automatically, and you can enjoy finer images.

[4:3]
Displays the image at the standard 4:3 without distortion.

[Zoom 1]
Scales the classic 4:3 format to 14:9.

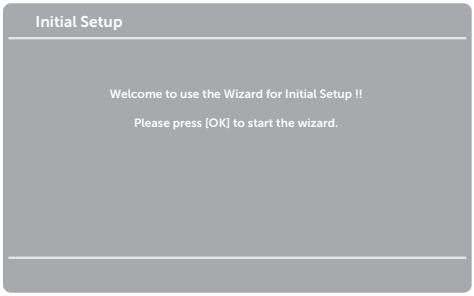
[Zoom 2]
Scales the classic 4:3 format to 16:9.

[16:9]
Directly displays the image at 16:9 without distortion (anamorphic).

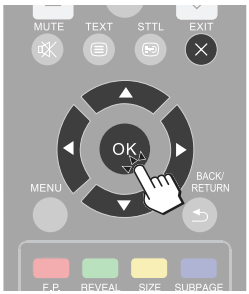
Note:
[Auto] mode determines the best aspect ratio to fill the screen. It does this using a three step process (WSS, Control signal through SCART / HDMI terminal) to determine.

Initial Setup

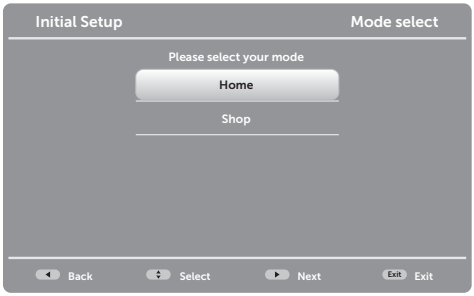
1 Initial Setup <On-Screen>



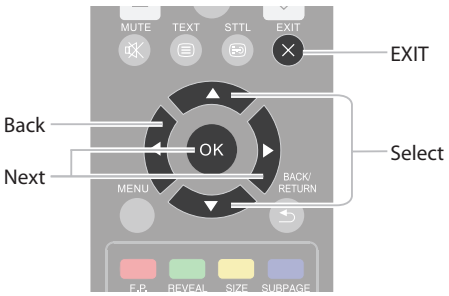
<Remote / Operation>



2 Mode Select (TV location setting) <On-Screen>



<Remote / Operation>

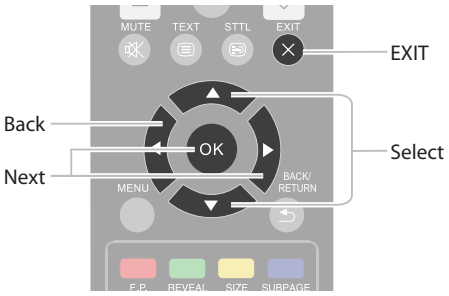


Note:

- If you selected **Shop**, a message appears "Are you sure ?". Select **Yes** to continue, or select **No** to change your selection.
- Select **Home** viewing environment to use in your home environment.
  Shop viewing environment is the demonstration mode to explain main features of this TV.
  To change viewing environment later on, you will need to initialise all settings by accessing **Shipping Condition**.

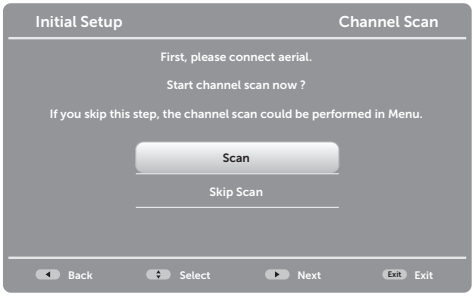
3 Country Setting <On-Screen>

<Remote / Operation>

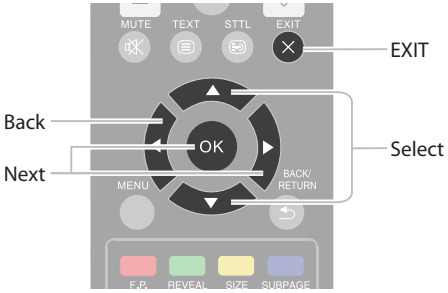


Initial Setup

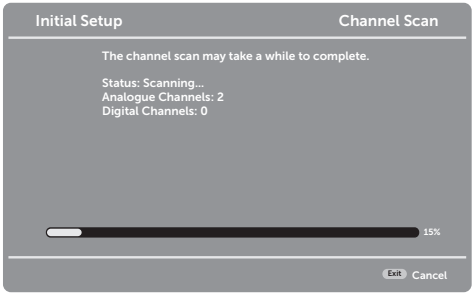
4 Channel Scan <On-Screen>



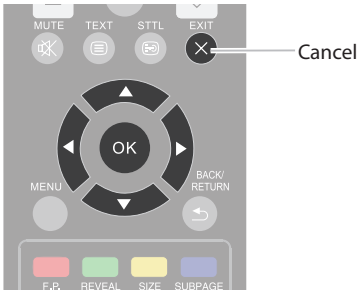
<Remote / Operation>



5 Search for channels <On-Screen>

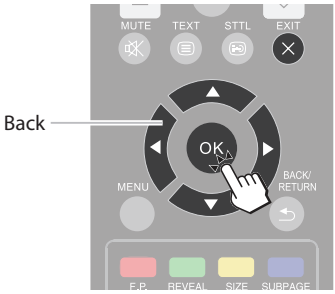


<Remote / Operation>



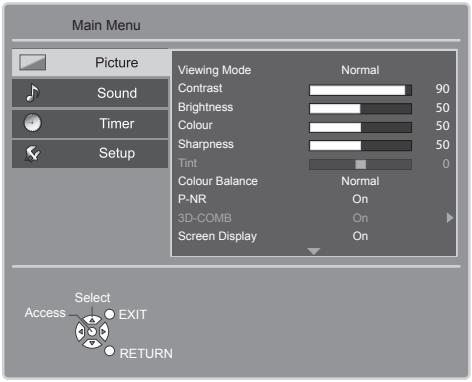
6 Initial setup completed <On-Screen>

<Remote / Operation>



On-Screen Display

Picture



1. Press **MENU** button and ▲▼ buttons to select "Picture", the Picture menu will be displayed.
2. Press **OK** button to enter Picture menu.
3. Press ▲▼ buttons to select item desired.
4. Press ◄► buttons to adjust value.
5. Press **BACK/RETURN** button to return the previous menu.
6. Press **EXIT** button to exit menu operation.

Viewing Mode

- Basic picture mode **Dynamic**/**Normal**/**Cinema**/**User**/**Game**.

Dynamic
- Provides enhanced picture contrast and sharpness when viewing in a bright room.
- For indoor lighting conditions, change Colour Balance setting to **Normal** or **Warm** for best picture viewing.

Normal
- Recommended for viewing under normal ambient room lighting conditions.

Cinema
- For watching movies in a darkened room with the improved performance of contrast, black and colour reproduction.

User
- Sets the settings for your preferred.

Game
- Fast response signal specifically to provide suitable images for playing games.

Contrast

- Increases or decreases the levels of contrast according to your personal preference. (0~100)

Brightness

- Increases or decreases the levels of brightness according to your personal preference. (0~100)

Colour

- Increases or decreases the levels of colour according to your personal preference. (0~100)

Sharpness

- Increases or decreases the levels of sharpness according to your personal preference. (0~100)

Tint

- With an NTSC signal source connected to the TV, the picture hue can be adjusted to suit your taste. (-50~50)
- For NTSC signal reception only.

Colour Balance

- Allows you to set the overall colour tone of the picture **Cool**/**Normal**/**Warm**.
- For indoor lighting conditions, change Colour Balance setting to **Normal** or **Warm** for best picture viewing.

P-NR

- Enables or disables P-NR (Picture Noise Reduction)
- Automatically reduces unwanted picture noise and flicker noise in the contoured parts of a picture.

3D-COMB

- Makes still or slow moving pictures look more vivid.
- For CVBS signal reception only.

Screen Display

- Turns the screen On or Off.
- Press any buttons (except Standby) to turn the screen on.
- The sound is active even if the screen turns off.
- This function is effective in reducing power consumption when listening to the sound without watching the TV screen.

Advanced Settings

- Provides various advanced settings for improving the picture quality.

16:9 Overscan
- Selects the screen area displaying the image.
  - **On:** Enlarges the image to hide the edge of the image.
  - **Off:** Displays the image in the original size.

Adaptive Brightness
- Automatically adjusts the brightness and contrast after analysing the input signal. This function enriches the colours and the depth of the picture.

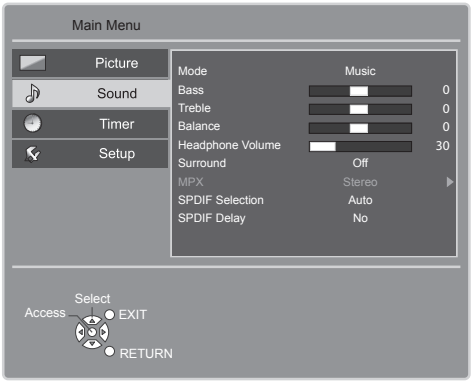
Dynamic Back Light
- Automatically optimises the backlight levels for dark scenes.

DVI Input Settings
- Changes the black level in the image for HDMI input mode with DVI input signal manually.
- For HDMI terminal with DVI input signal only.

3:2 Pulldown

- Automatically detects a film-based source (originally encoded at 24 frames/second), analyses it then recreates each file frame for high-definition picture quality.
- 3:2 pulldown function is selectable when channel display shows an input resolution of 576i, 480i, or 1080i.

Sound



1. Press **MENU** button and ▲▼ buttons to select "Sound", the Sound menu will be displayed.
2. Press **OK** button to enter Sound menu.
3. Press ▲▼ buttons to select item desired.
4. Press ◀▶ buttons to adjust value.
5. Press **BACK/RETURN** button to return the previous menu.
6. Press **EXIT** button to exit menu operation.

Mode

- Selects the basic sound mode **Music**/**Speech**.

Music

- Optimise sound quality for watching music videos, etc.

Speech

- Optimise sound quality for watching news, drama, etc.

Bass

- Increases or decreases level to enhance or minimise lower, deeper sound output. (-14~14)

Treble

- Increases or decreases level to enhance or minimise sharper, higher sound output. (-14~14)

Balance

- Adjusts volume level of right and left speakers. (-50~50)

Headphone Volume

- Adjusts the volume of the headphones. (0~100)

Surround

- Enriches (expanding and deepening) the sound quality.

MPX

- Selects multiplex sound mode (if available).
- For analogue mode only.

SPDIF Selection

- SPDIF: A standard audio transfer file format.
- Selects the initial setting for digital audio output signal from DIGITAL AUDIO OUT terminal.

Auto

- Outputs Dolby Digital (if available) or default audio source to DIGITAL AUDIO OUT terminal.
- If the audio is recorded in Dolby Digital, the output from DIGITAL AUDIO OUT terminal will be Dolby Digital.

PCM

- Outputs PCM format to DIGITAL AUDIO OUT terminal.

SPDIF Delay

- Adjusts the delay time of the sound output from DIGITAL AUDIO OUT terminal if the sound does not synchronise the image.

HDMI1 input

- Selects an input way of audio signal.
- For HDMI1 terminal only.

Digital

- Selects **Digital** to input audio signal from HDMI terminal.

Analogue

- Selects **Analogue** to input audio signal from L/R jack of AV2 INPUT.

Audio Description

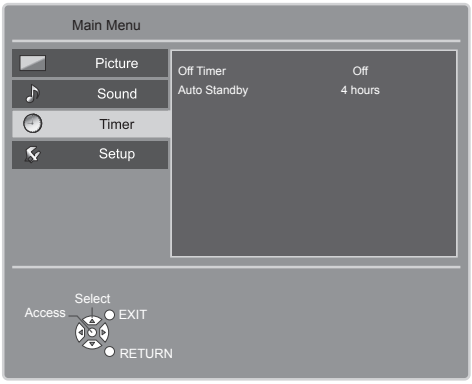
Audio Description

- **Normal:** Sets regular audio only.
- **Hard of Hearing:** Sets the mix of hearing impaired audio with regular audio.
- **Visually Impaired:** Sets the mix of visually impaired audio with regular audio.

Volume

- Adjusts the volume for Audio Description. (0~100)

Timer



1. Press **MENU** button and ▲▼ buttons to select "Timer", the Timer menu will be displayed.
2. Press **OK** button to enter Timer menu.
3. Press ▲▼ buttons to select item desired.
4. Press ◄► buttons to adjust value.
5. Press **BACK/RETURN** button to return the previous menu.
6. Press **EXIT** button to exit menu operation.

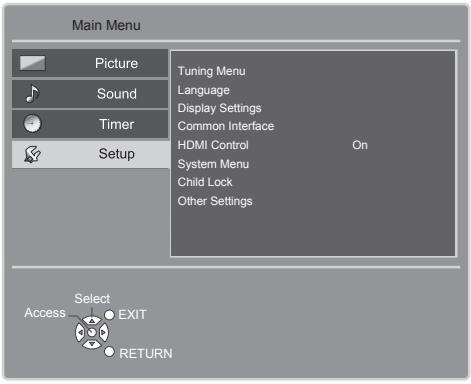
Off Timer

- Sets the time until the TV automatically goes to Standby mode.

Auto Standby

- Makes non-watched or non-used connected equipment go into Standby mode to reduce the power consumption.

Setup



1. Press **MENU** button and ▲▼ buttons to select "Setup", the Setup menu will be displayed.
2. Press **OK** button to enter Setup menu.
3. Press ▲▼ buttons to select item desired.
4. Press ◄► buttons to adjust value.
5. Press **BACK/RETURN** button to return the previous menu.
6. Press **EXIT** button to exit menu operation.

PC Setup

- For PC input source only.

Input Resolution
- Options change depending on signals.

Clock
- Sets to the minimum level if noise occurs.

H-pos
- Adjusts horizontal position.

V-pos
- Adjusts vertical position.

Clock Phase
- Eliminates flicker and distortion.

Auto Adjustment
- Automatically adjusts the image settings such as position and phase.

Tuning Menu

Auto Setup
- Automatically sets the channels.

Update Channel List
- Updates channel list without erasing the original information.
- Only available when Tuner Mode is set to Aerial.

Single RF Scan
- Scans single RF channels and checks the signal condition.

Analogue Manual Scan
- Searches and stores analogue TV channels manually.
- For TV mode only.

Note:
TV will store scanned channels, even if the scanning for channels have not completed.

Channel Skip
- Skips one or more channels when using remote control to switch between channels.

Channel Sort
- Reorders the channels in the programme list.

Channel Edit
- Edits the channel number or the channel name.

Fine Tuning
- Fine-tunes analogue channels manually when the reception is poor.

Clean Channel List
- Cleans all the current TV channels.

Language

Preferred Audio 1 / Preferred Audio 2
- Selects the first and second preferred language for DVB multi audio (depending on the broadcaster).

Preferred Subtitle 1 / Preferred Subtitle 2
- Selects the first and second preferred language for DVB subtitles (depending on the broadcaster).

Display Settings

Teletext Character Set
- Selects teletext language.
- Only for Ireland region.

Banner Display Timeout
- Sets how long the Information banner stays on screen.

Common Interface
- Uses include to watch encrypted channels.

HDMI Control

First, please connect your TV to a HDMI compliant device.
- TV will be turned on and display the previous viewed input source, when the connected HDMI compliant device is switched on.
- Connected HDMI compliant device will be switched to standby when TV turns to standby mode.

Network
- Sets network settings for your TV.

Configuration
- **Internet Connection:** Selects **On** to enable network settings.
- **Information:** Displays information of network connection.
- **IP Setting:** Detects IP automatically or sets IP manually.
- **Connection Test:** Displays the network signal strength.

Interaction channel
- Interaction channel provides an extension of broadcast interactive services via broadcast transmission or IP connection.
- Selects **On** to enable Interaction channel function.

MHEG5 PIN protection
- Asks the viewer to enter the PIN to allow presentation.

SCART
- For AV1 (SCART) input source only.

Auto
- Detects CVBS, RGB or S-Video automatically.

Mix
- Mix CVBS and RGB signals.

RGB
- RGB signal is displayed.

Composite
- Composite signal is displayed.

S-Video
- S-video input is displayed.

System Menu

Shipping Condition
- Resets all settings, for example, when moving house.

OAD
- Turns OAD function **On** or **Off**.

Auto Download
- Downloads new software by air automatically.

Auto Install
- Installs new software automatically

Manual OAD
- Upgrades software by air manually.

System Information
- Displays the system information of this TV.

Software License
- Displays the software license information of this TV.

Child Lock

- Locks a channel / AV input to prevent access to it.
- When the locked channel / input is selected, a message appears; you need to enter the PIN number to watch the restricted content.

PIN

- You need to enter the PIN when you access locked channel or inputs.
- The default PIN is 0000.

Channel Block

- Prevents children from watching certain channels.

Parental Rating

- Prevents children from watching certain TV programmes according to the age rating.

Input Block

- Disables the specific external input signals.

Change PIN

- Change the 4-digit parental control PIN.

Clear All

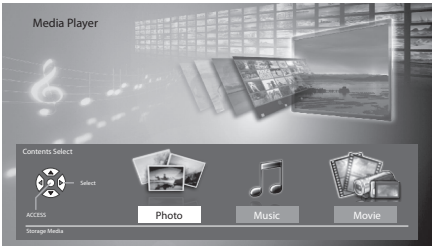
- Cleans child lock settings.

Other Settings

Power Save

- Reduces brightness of picture to economise on power consumption.

Media Player



1. Insets the USB storage device to the USB port on the TV.
2. Press **INPUT(AV)** button, and the input source list will be displayed.
3. Press ▲/▼ to select **USB**, and press **OK** button to enter multi-media content.

Note:

- Partition: FAT32, Not support NTFS format. (FAT32—Max Partition Size: 32GB, Max File Size: 4GB)
- Some of the USB storage devices may not be compatible with this TV, please try another USB storage devices.
- See page 25 for USB storage device compatibility.

Photo

- Thumbnail Index/Single View

Buttons	Description
Red	• Play slideshow.
Green	• Selects viewing type.
Yellow	• Selects Photo, Music, or Movie
Blue	• Opens option menu.
(Information)	• Display file information.
▲/▼/◀/▶	• Selects photos.
◀◀	• Go to the previous photo.
▶/❚❚	• Play slideshow.
■	• Return to the thumbnail photo index.
▶▶	• Go to the next photo.

- Playing Slideshow

Buttons	Description
Blue	• Opens option menu.
◀◀	• Go to the previous photo.
▶/❚❚	• Pause slideshow and display single view of the photo.
■	• Stop slideshow and return to the thumbnail photo index.
▶▶	• Go to the next photo.

Music

Buttons	Description
Blue	• Opens option menu.
Yellow	• Selects Photo, Music, or Movie.
(Information)	• Display file information.
▲/▼/◀/▶	• Selects musics.
◀◀	• Rewind the selected music.
▶/❚❚	• Play or pause the selected music.
■	• Stop the selected music and return to the thumbnail music index.
▶▶	• Fast forward the selected music.

Movie

Buttons	Description
Blue	• Opens option menu.
Yellow	• Selects Photo, Music, or Movie.
(Information)	• Display file information.
▲/▼/◀/▶	• Selects videos.
◀◀	• Rewind the selected movie
▶/❚❚	• Play or pause the selected movie.
■	• Stop the selected movie and return to the thumbnail movie index.
▶▶	• Fast forward the selected movie.

Option List

- In multi- media menu, you can press Blue colour key to select one of following options.

Viewing photos
- Transition Effect
- Photo Size
- Interval
- Repeat

Playing music
- Repeat

Playing movies
- Multi Audio
- Subtitle
- Aspect Change
- Repeat
- Viewing Mode

TROUBLESHOOTING

Before calling your dealer or service centre for assistance, check the matters below once again.

1. Make sure you have connected LCD TV to your equipment.
2. Check cable connection. Verify that all external equipment and power cords are properly connected.
3. Verify that all power is switched on.
4. If LCD TV still does not produce an image, re-start the external equipment.
5. If the image still does not appear, unplug LCD TV from the external equipment and check the external equipment. The problem may be with your graphics controller rather than with LCD TV. (When you reconnect LCD TV, remember to turn the external equipment and TV off before you power up LCD TV. Power the equipment back on in order of LCD TV and external equipment.)
6. If the problem still exists, check the following chart.

Problem	Try these Solutions
NO POWER	● Plug this LCD TV into the AC outlet. ● Press POWER button on side control or on Remote Control to turn on LCD TV. ● Check POWER Indicator. If this indicator no light, this TV has getting trouble.
Remote Control does not work	● Check the batteries. ● Make sure nothing is between the Remote Receiver and the Remote Control. ● Make sure you are not too far from LCD TV when using Remote Control. ● Maximum operating range is (7m and a 30 degree angle of the front of the TV). ● Is direct sunlight or strong artificial light shining on LCD TV's Infrared Remote Receiver? Eliminate the light by closing curtains, pointing the light in a different direction, etc. ● A dedicated remote control is required for this model. Basically, the remote control of other brands (including Panasonic other models) cannot be used.
No image	● Check the connection between the external equipment and LCD TV. ● When turning LCD TV on, it takes a few seconds to display the image. ● Check the system that you select is corresponding with the external equipment or the video equipment. ● Make sure the temperature is not out of the Operating Temperature (0°C ~ 35°C). ● Turn off power, then turn on again, re-start LCD TV.
No sound	● Check Audio cable connection from Audio input source. ● Adjust the Sound System. ● Press VOLUME (+) button. ● Press MUTE button.
There are tiny black points and/ or bright point on the TV	● Dark or bright points of light (red, green, or blue) may appear on the screen. This is a characteristic of the LCD panel, not a malfunction of the LCD TV. ● LCD panel is produced with very high accuracy technology. There is 99.99% or more dot pixel, but there is also 0.01 % or less of dot pixel lack or dot pixel that is constantly lighted. This is not defect. ● Regarding LCD panel characteristic, it may occur picture remain (look like a mirror) when the screen is changed if it displays same screen for a long time. Changing the picture or turn-off the power supply may recover. ● Stripe pattern (more, interference stripes) may show up on the screen depends on the reflected picture.
Abnormal colour of image	● Adjust the value of colour.

Warning

High voltages are used to operate this LCD TV.
Do not attempt to open the cabinet.

If the problem still persists after following all operating instructions, contact the sales dealer where you purchased LCD TV or the service centre. Give the model number and explain the difficulty. We will advise you how to obtain service.

SPECIFICATIONS

		TX-L19X5B	TX-L24X5B
Power Source		AC 220-240 V, 50Hz	
Energy efficiency class		A	A
On mode average power consumption		17 W	24 W
Annual energy consumption*1		25 kWh	35 kWh
Rated Power Consumption		25 W	40 W
Standby Power Consumption*2		0.3 W	0.3 W
Dimensions (W × H × D)		**With Pedestal:** 454 mm × 343 mm × 170 mm **Without Pedestal (TV only):** 454 mm × 303 mm × 46 mm	**With Pedestal:** 567 mm × 406 mm × 170 mm **Without Pedestal (TV only):** 567 mm × 367 mm × 46 mm
Mass		**With Pedestal:** 3.5 kg **Without Pedestal (TV only):** 3.0 kg	**With Pedestal:** 4.5 kg **Without Pedestal (TV only):** 4.0 kg
Display panel	**Aspect Ratio**	16:9	
	Visible screen size	409.8 mm (W) × 230.4 mm (H) 18.5 inches (diagonal)	521.3 mm (W) × 293.2 mm (H) 23.5 inches (diagonal)
	Number of pixels	1,049,088 (1,366 (W) × 768 (H))	2,073,600 (1,920 (W) × 1,080 (H))
Sound	**Speaker**	(100 mm × 27 mm × 27 mm) × 2, 16 Ω	(100 mm × 27 mm × 27 mm) × 2, 16 Ω
	Audio Output	6 W (3 W + 3 W), 10% THD	6 W (3 W + 3 W), 10% THD
	Headphones	3.5mm stereo mini Jack × 1	3.5mm stereo mini Jack × 1
Broadcast System		Analogue: PAL-I Digital: DVB-T/T2	
Aerial input		VHF / UHF	
Operating Conditions		**Temperature :** 0 °C - 35 °C **Humidity :** 20 % - 80 % RH (non-condensing)	

*1: Energy consumption XYZ kWh per year, based on the power consumption of the television operating 4 hours per day for 365 days. The actual energy consumption will depend on how the television is used.

*2: When the TV is turned off with the remote control and no function is active.

Input Signal Compatibility Chart

COMPONENT (Y, PB, PR), HDMI

Signal name	COMPONENT	HDMI
525 (480) / 60i, 60p	◯	◯
625 (576) / 50i, 50p	◯	◯
750 (720) / 60p, 50p	◯	◯
1,125 (1,080) / 60i, 50i	◯	◯
1,125 (1,080) / 60p, 50p, 24p		◯

◯ Mark : Applicable input signal

PC (from D-sub terminal/ HDMI terminal)

Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)
640 × 400 @70 Hz	31.47	70.08
640 × 480 @60 Hz	31.47	59.94
640 × 480 @75 Hz	37.50	75.00
800 × 600 @60 Hz	37.88	60.32
800 × 600 @75 Hz	46.88	75.00
800 × 600 @85 Hz	53.67	85.08
1,024 × 768 @60 Hz	48.36	60.00
1,024 × 768 @70 Hz	56.48	70.07
1,024 × 768 @75 Hz	60.02	75.03
1,024 × 768 @85 Hz	68.68	85.00
1,280 × 768 @60 Hz	47.78	59.87
1,280 × 1,024 @60 Hz	63.98	60.02
1,366 × 768 @60 Hz	48.39	60.04
Macintosh13" (640 × 480)	35.00	66.67
Macintosh16" (832 × 624)	49.73	74.55
Macintosh21" (1,152 × 870)	68.68	75.06

Applicable input signal for PC is basically compatible to VESA standard timing
Applicable input signal for PC is basically compatible to HDMI standard timing

Note:

- Signals other than above may not be displayed properly.
- The above signals are reformatted for optimal viewing on your display.
- PC signal is magnified or compressed for display, so that it may not be possible to show fine detail with sufficient clarity.
- Only HDMI 1 supports PC/DVI (co-use R/L of YPbPr RCA jack for DVI mode audio input).

Multi-media Supported Specification

Photo

Format	File extension	Image resolution (pixel)	Details / Restrictions
JPEG	.jpeg	Baseline jpeg: 4 x 4 to 17,000 x10,000 Progressive jpeg: 4 x 4 to 4,000 x 4,000	DCF*1 and EXIF*2 standards Sub-sampling : 4:4:4, 4:2:2, 4:2:0

*1 : Design rule for Camera File system - unified standard established by Japan Electronics and Information Technology Industries Association (JEITA)

*2 : Exchangeable Image File - image file format used by digital cameras

Music

Codec	File extension	Restrictions
MP3	.mp3	–
AAC	.m4a	–
WMA	.wma	WMA lossless/WMA Pro are not supported.

Movie

Container	File extension	Video codec	Audio codec
AVCHD	.mts	H.264 BP/MP/HP	Dolby Digital
AVI	.avi	H.264 BP/MP/HP MPEG 4	MP3, MPEG1 Layer1/2, Dolby Digital, AAC, HE-AAC
ASF	.asf .wmv	Windows Media Video v9/VC-1	Windows Media Audio v8, MP3
MKV	.mkv	H.264 BP/MP/HP	MP3, MPEG1 Layer1/2, Dolby Digital, AAC, HE-AAC
MP4	.mp4 .m4v	H.264 BP/MP/HP	MP3, AAC, HE-ACC
TS	.ts .tp	H.264 BP/MP/HP MPEG 2	Dolby Digital, Dolby Digital Plus, MP3, AAC, HE-AAC
PS	.mpg .mpeg	MPEG 1/MPEG 2	Dolby Digital, MPEG1 Layer1/2, AAC, DVD LPCM
FLV	.flv .f4v	H.264 BP/MP/HP	MP3, AAC, HE-AAC
3GPP	.3gp	H.264 BP/MP/HP MPEG 4	AAC, HE-AAC

Note:

- Some files may not be played back even if they fulfill these conditions.
- Do not use two-byte characters or other special codes for data.
- The card may become unusable with this TV if the file or folder names are changed.

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By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

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Note for the battery symbol (bottom two symbol examples) :

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

Sales and Support Information

Customer Communications Centre

- For customers within the UK: **0844 844 3899**
- For customers within Ireland: **01 289 8333**
- For further support on your product, please visit our website: **www.panasonic.co.uk**

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CE

Declaration of Conformity (DoC)
Authorised Representative :
Panasonic Testing Centre
Panasonic Marketing Europe GmbH
Winsbergring 15, 22525 Hamburg, Germany

Customer's Record

The model number and serial number of this product may be found on its rear panel. You should note this serial number in the space provided below and retain this book, plus your purchase receipt, as a permanent record of your purchase to aid in identification in the event of theft or loss, and for Warranty Service purposes.

Model Number **Serial Number**

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